	Application No.	Applicant(s)	
Notice of Allowability	10/612,411	SHIMADA ET AL.	
	Examiner	Art Unit	
	Roberts Culbert	1763	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in t or other appropriate communated in the communated in the communated in the communated in the community of the community in the communi	this application. If not included ication will be mailed in due cour	rse. THIS
1. This communication is responsive to			
2. 🔀 The allowed claim(s) is/are <u>1-13</u> .			
3. \boxtimes The drawings filed on <u>03 July 2003</u> are accepted by the Ex	xaminer.		
 4. Acknowledgment is made of a claim for foreign priority unanalysis. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	No	from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the require	ments
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			CE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers hereto or 2) including to Paper No./Mail Date including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the such as the second sheet. 	son's Patent Drawing Review (. s Amendment / Comment or ir . s.84(c)) should be written on the	n the Office action of drawings in the front (not the back	k) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 1/28/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sum Paper No./M 08), 7. ☐ Examiner's Ar	lail Date mendment/Comment tatement of Reasons for Allowan	Í
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Application/Control Number: 10/612,411

Art Unit: 1763

Allowable Subject Matter

Claims 1-13 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach or render obvious a method of manufacturing a liquid jet head including a passage-forming substrate which is made of a single crystal silicon substrate and in which at least one pressure generating chamber communicating with at least one nozzle orifice is defined, and at least one piezoelectric element which is provided on the passage-forming substrate through a vibration plate and made of a lower electrode, a piezoelectric layer and an upper electrode, the method comprising the steps of: forming the vibration plate and the piezoelectric element on one surface of the passage-forming substrate; thermally adhering a sealing plate which has a piezoelectric element holding portion for sealing the piezoelectric element therein, onto the passage-forming substrate; processing the passage-forming substrate to have a predetermined thickness; depositing an insulation film on other surface of the passage-forming substrate at lower temperature than that for adhering the passage-forming substrate and the sealing plate, and patterning the insulation film into a predetermined shape; and etching the passage-forming substrate using the patterned insulation film as a mask to form the pressure generating chamber.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See U.S. Patents 5,922,218; 5956,829; 6109,736; 6,332,254; 6,334,244; 6,345424; and 6,382,781.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberts Culbert whose telephone number is (571) 272-1433. The examiner can normally be reached on Monday-Friday (7:30-4:00).

Application/Control Number: 10/612,411

H. Collect

Art Unit: 1763

Page 3

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Mills can be reached on (571) 272-1439. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

R.Culbert